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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/089,789	06/03/1998	JAY M. SHORT	D1270-03US	3204
4249 CAROL WILSO	7590 10/26/201 O <b>N</b>	1	EXAM	IINER
BP AMERICA		MCGARRY, SEAN		
150 West Warrenville Road MC 200-1W		ART UNIT	PAPER NUMBER	
Naperville, IL 6	60563		1635	
			NOTIFICATION DATE	DELIVERY MODE
			10/26/2011	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Carol.Wilson@bp.com bppatentus@bp.com Rick.Madsen@bp.com

	Application No.	Applicant(s)			
Office Action Commence	09/089,789	SHORT, JAY M.			
Office Action Summary	Examiner	Art Unit			
	SEAN MCGARRY	1635			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 10 Ju	ine 2011.				
· <u> </u>	action is non-final.				
3) Since this application is in condition for allowar		secution as to the merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 43-60,62,65-80 and 82 is/are pending in the application.					
4a) Of the above claim(s) <u>44,45,48-50,54,57-60</u>		n from consideration.			
5) Claim(s) is/are allowed.					
6) Claim(s) <u>43, 46, 47, 51-53, 55, 56, 65-69, 72-75, 77-80 and 82</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)		Paper No(s)/Mail Date  5) Notice of Informal Patent Application			
Paper No(s)/Mail Date					

### **DETAILED ACTION**

Claims 43-60, 62, 65-80, and 82 are pending.

Claims 44, 45, 48-50, 54, 57-60, 62, 70, 71, and 76 remain withdrawn from consideration. Claims 55 and 56 are no longer withdrawn from consideration since the claims have been amended to depend from claim 43.

Claims 43, 46, 47, 51-53, 65-69, 72-75, 77-80, and 82 are currently under examination.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 43, 46, 47, 51-53, 65-69, 72-75, and 77-82 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The previous grounds of rejection have been overcome in view of applicants amendments to the claims. The grounds of rejection below are new grounds based on applicants amendments to the claims.

Claims 43, 80 and 82 all recite "a step comprising" (i), (ii), and (iii) in part (c) of each claim. The language renders the claim vague and indefinite since "a step" ie a single step can not comprise all steps (i), (ii), and (iii). The language also lends to improper Markush language where, if the intent of the limitation is to select from (i), (ii) and (iii), then the term comprising leave one in the art left with an unidentified group where the groups to select from comprises (i), (ii) and (iii) but is not limited thereto where the potential other constituents of the group are unidentified.

Claim 66 recites "wherein the at least one organism marker" There is insufficient antecedent basis for this language in the claim.

Claim 69 recites "wherein the at least one organism marker" There is insufficient antecedent basis for this language in the claim.

Those claim indicated as rejected and not specifically treated above are rejected in so far as they depend from the claims addressed above.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 43, 46, 47, 51-53,55, 56, 65-69, 72-75, 77-80 and 82 are rejected under 35 U.S.C. 102(a) as being anticipated by Stein et al [Journal of Bacteriology Vol. 178(3):591-599, 1996].

Stein et al have disclosed the characterization of uncultivated prokaryotes where the organism samples were obtained directly from an aquatic environment. Genomic nucleic acid samples were selected and placed into libraries. The uncultivated organism samples where subject to various selections such as size selection. For example, 30 liter samples were filtered to select for organisms and these samples were further subject to concentration of the desired organisms (see material and methods at page 592 and see also page 593 "Results". It is disclosed that some samples were collected for rRNA abundance analysis. Nucleic acids were screened for rDNA. Nucleic acid samples were placed into vectors where digested nucleic acids of 35-45kpb were selected.

Vectors were placed into E.coli and this organism sample was selected for plasmid containing cells(it is noted that this organism sample represents a heterologous population since, for example the initial population subjected to selection either contained fosmids/plasmids or did not and also contained different fosmids/plasmids, for example). The population or sample was selected for, first cells that contain fosmids and then further selected for clones that contained16S rDNA. This sample was even further subcloned where the clones contained gene clusters(see page 594, for example.). RDNA containing samples were selected utilizing primers. Nucleic acid samples were selected based on nucleic acid content including 16S RNA and it is

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disclosed that the sample contained a specified content of C+C content. See entire Materials and Methods section and also Figure 1 which shows various organism and nucleic acid selection steps and well as Figure 2 which shows selection of nucleic acids. See also Table 1. See also top of right column on page 595 and right column of page 596, for example.

Applicant arguments filed 6/10/2011 have been considered but are not persuasive. Applicant argues that filtration is not a selection means. This is not agreed with. Filtration selects based on size. Size is a morphological marker, for example. Applicant points to page 18 and 27-30 of the specification. It is noted that at page 18 it is asserted that ""organism marker" may be exemplified, but not limited tone of the following. .." Applicants specifications and claims do not exclude size as an organism marker. (see specification at page 18, for example). It is noted that it is not only the initial samples of stein et al that have been selected and manipulated. It is noted that the claims read broadly on the methods involved in selection of bacteria utilized in nucleic acid manipulations, for example. For example "catalogued comprises any library, including libraries with one consituent, that is characterized with respect to its constituents (see pages 11 and 14). "Adjusting to advantage" includes no adjustment (see page 14). "an organism form includes E.col1 (see page 12). A fraction includes 100% (see page 13).

#### Conclusion

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN MCGARRY whose telephone number is (571)272-0761. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Calamita can be reached on (571) 272-2876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean R McGarry Primary Examiner Art Unit 1635

/Sean R McGarry/ Primary Examiner, Art Unit 1635